

Clutches

GENERAL MOTORS — S10

Chevrolet, GMC

DESCRIPTION

Diaphragm spring clutch utilizes a single, slotted diaphragm-type spring to provide both pressure plate action and tension. The clutch is operated by a constant length cable. Adjustment mechanism is located in the pedal pivot assembly.

REMOVAL & INSTALLATION

CLUTCH

Removal

1) Raise and support vehicle under frame. Disconnect clutch fork cable. Remove transmission. Remove flywheel housing. Snap fork off of ball pivot. Remove release bearing from clutch fork. Mark position of clutch cover on flywheel for reassembly.

2) Install a tool (J-33169 or J-33034) in clutch disc for support. Loosen clutch cover bolts one or two turns at a time until clutch plate spring tension is released. Remove clutch pilot tool and remove clutch cover and disc.

Installation

Lubricate clutch fork ball seat and recess in release bearing. Reverse removal procedure, making sure clutch hub and pilot bearing are aligned.

CLUTCH CABLE

Removal

1) Hold pedal up against bumper stop and release pawl from detent. Be careful not to allow cable to snap back and damage adjuster.

2) Remove hush panel and disconnect neutral start switch. Remove clutch pedal bumper bolts. Remove pivot bolts and pedal assembly from bracket.

3) Disconnect clutch cable. Lift locking pawl and slide cable forward between detent and locking pawl. In engine compartment, remove bolts holding cable to firewall. Remove cable. Replace cable if kinked or frayed or if boot is damaged.

Installation

Route cable and install cowl bolts. Fit cable under pawl and into detent cable groove. Install pedal assembly and pivot bolt. Install pedal bumper, neutral start switch and hush panel. Hold pedal against bumper and connect other end of cable to clutch fork. Lift and depress pedal several times, then check adjustment.

ADJUSTMENT

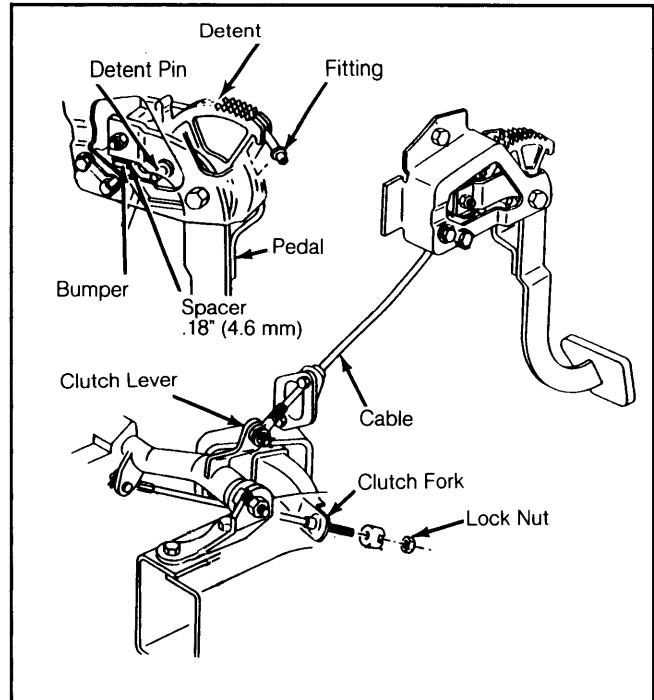
CLUTCH CABLE

Insert detent pin in adjuster. Position .18" (4.6 mm) spacer between rubber bumper and pedal arm. Hold pedal firmly against spacer. Pull clutch fork forward until release bearing touches pressure plate fingers. Tighten adjusting nut until all lash is removed. Tighten lock nut. Remove spacer.

CLUTCH PEDAL FREE PLAY

Play can be adjusted by lifting pedal up against bumper stop. Lift and depress pedal slowly several times.

Fig. 1: Clutch Free Play Adjustment Points



TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Flywheel-to-Engine Bolts	
4-Cyl.	70 (95)
V6	50 (68)
Clutch Housing-to-Engine Bolts	55 (75)
Clutch Cover-to-Flywheel	20 (25)